



Dave Heineman
Governor

State of Nebraska

DEPARTMENT OF AGRICULTURE
GREGORY A. IBACH
Director

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524

CERTIFICATION FOR STANDARDS OF MEASUREMENT

Agency: Food Safety & Consumer Protection
Area 30

Date: 3/25/2013
Agency ID: 30
NE Cert No: 20130026
P.O. No:

Submitted By: Jeff Saathoff

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
5 gal	00-16623-01	1	VL	A
5 gal	00-16623-02	1	VL	A
5 gal	00-16623-03	1	VL	A
5 gal	40702C	1	VL	A
5 gal	40702D	1	VL	A
4 kg	6	1	4	A
2 lb	7A73	1	F	A
2 lb	7A73	2	F	A
2 lb	7A73	3	F	A
2 lb	7A73	4	F	A
2 lb	7A73	5	F	A
2 lb	7A73	6	F	A
2 lb	7A73	7	F	A
2 lb	7A73	8	F	A
2 lb	7A73	9	F	A
2 lb	7A73	10	F	A
2 lb	7A73	11	F	A
2 lb	7A73	12	F	A
2 lb	7A73	13	F	A
2 lb	7A73	14	F	A
1 lb	7A73	15	F	A
1 lb	7A73	16	F	A
8 oz	7A73	17	F	A
4 oz	7A73	18	F	A
2 oz	7A73	19	F	A

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Administration
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Lincoln, NE 68502-5399
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Submitted By: Jeff Saathoff

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
1 oz	7A73	20	F	A
0.5 oz	7A73	21	F	A
0.25 oz	7A73	22	F	A
0.125 oz	7A73	23	F	A
0.0625 oz	7A73	24	F	A
0.0625 oz*	7A73	25	F	A
0.3 lb	9-OPI-5	14	F	A
0.2 lb	9-OPI-5	15	F	A
0.1 lb	9-OPI-5	16	F	A
0.05 lb	9-OPI-5	17	F	A
0.03 lb	9-OPI-5	18	F	A
0.02 lb	9-OPI-5	19	F	A
0.01 lb	9-OPI-5	20	F	A
0.005 lb	9-OPI-5	21	F	A
0.003 lb	9-OPI-5	22	F	A
0.002 lb	9-OPI-5	23	F	A
0.001 lb	9-OPI-5	24	F	A
0.001 lb*	9-OPI-5	25	F	A
25 lb	WM25-132	1	F	A
25 lb	WM25-133	1	F	A
25 lb	WM25-135	1	F	A
25 lb	WM25-136	1	F	A
25 lb	WM25-137	1	F	A
25 lb	WM25-138	1	F	A
25 lb	WM25-139	1	F	A
25 lb	WM25-140	1	F	A
25 lb	WM25-22	1	F	A
25 lb	WM25-26	1	F	A
25 lb	WM25-31	1	F	A
25 lb	WM25-34	1	F	A
25 lb	WM25-35	1	F	A
25 lb	WM25-41	1	F	A
25 lb	WM25-54	1	F	A
25 lb	WM25-60	1	F	A
25 lb	WM25-61	1	F	A
25 lb	WM25-62	1	F	A

Submitted By: Jeff Saathoff

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Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
25 lb	WM25-63	1	F	A
25 lb	WM25-64	1	F	A
8 oz	WM-30-1	1	F	A
300 g	WM-G89-2	1	4	A
200 g	WM-G89-2	2	4	A
100 g	WM-G89-2	3	4	A
50 g	WM-G89-2	4	4	A
30 g	WM-G89-2	5	4	A
20 g	WM-G89-2	6	4	A
10 g	WM-G89-2	7	4	A
5 g	WM-G89-2	8	4	A
3 g	WM-G89-2	9	4	A
2 g	WM-G89-2	10	4	A
1 g	WM-G89-2	11	4	A
500 mg	WM-G89-2	12	4	A
200 mg	WM-G89-2	13	4	A
200 mg*	WM-G89-2	14	4	A
100 mg	WM-G89-2	15	4	A
50 mg	WM-G89-2	16	4	A
20 mg	WM-G89-2	17	4	A
20 mg*	WM-G89-2	18	4	A
10 mg	WM-G89-2	19	4	A
5 mg	WM-G89-2	20	4	A
2 mg	WM-G89-2	21	4	A
2 mg*	WM-G89-2	22	4	A
1 mg	WM-G89-2	23	4	A

These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards and Technology. These field standards also meet the required specifications.

The reference standards used are traceable to the National Institute of Standards and Technology (NIST). Our traceability is maintained through control charts, regional inter-comparisons and periodic recertifications. This certificate is issued by the Nebraska Department of Agriculture / Division of Weights and Measures. Reproduction of this certificate must include the entire document (including all attached papers).

See 'Test Results' attached

See report/letter attached



Craig E. Olsen

Nebraska State Metrologist

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087

SOP 19 - Volume Transfer Test Results

Agency ID: 30

Agency: Food Safety & Consumer Protection
Area 30

, -

Form No.: NE03LF12-R00

NE Cert No: 20130026

Date: 3/25/2013

P.O. No:

Submitted By: Jeff Saathoff

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Serial #: 00-16623-01
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	47 °F	0.999827	0 in3

Test Measure Information

Water Temperature: 47 °F
Water Density: 0.999827 g/cm³
Scale Reading: -0.3 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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Serial #: 00-16623-01
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	46.5 °F	0.999845	0 in3

Test Measure Information

Water Temperature: 46.5 °F
Water Density: 0.999845 g/cm³
Scale Reading: -0.3 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 00-16623-02
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.6 °F	0.999874	0 in3

Test Measure Information

Water Temperature: 45.6 °F
Water Density: 0.999874 g/cm³
Scale Reading: -0.3 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 00-16623-02
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.9 °F	0.999894	0 in3

Test Measure Information

Water Temperature: 44.9 °F
Water Density: 0.999894 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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SOP 19 - Volume Transfer Test Results

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Serial #: 00-16623-03
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.1 °F	0.999888	0 in3

Test Measure Information

Water Temperature: 45.1 °F
Water Density: 0.999888 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Serial #: 00-16623-03
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.6 °F	0.999902	0 in3

Test Measure Information

Water Temperature: 44.6 °F
Water Density: 0.999902 g/cm³
Scale Reading: -0.1 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 4.9995 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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Agency ID: 30

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Serial #: 40702C
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.7 °F	0.999899	0 in3

Test Measure Information

Water Temperature: 44.7 °F
Water Density: 0.999899 g/cm³
Scale Reading: -0.5 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0013 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
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SOP 19 - Volume Transfer Test Results

Agency ID: 30

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NE Cert No: 20130026

Date: 3/25/2013

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Serial #: 40702C
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	45.8 °F	0.999868	0 in3

Test Measure Information

Water Temperature: 45.8 °F
Water Density: 0.999868 g/cm³
Scale Reading: -0.3 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0004 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
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SOP 19 - Volume Transfer Test Results

Agency ID: 30

Agency: Food Safety & Consumer Protection
Area 30

Form No.: NE03LF12-R00

NE Cert No: 20130026

Date: 3/25/2013

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Serial #: 40702D
Retest #: 0
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.1 °F	0.999914	0 in3

Test Measure Information

Water Temperature: 44.1 °F
Water Density: 0.999914 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

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SOP 19 - Volume Transfer Test Results

Agency ID: 30

Agency: Food Safety & Consumer Protection
Area 30

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Form No.: NE03LF12-R00

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Serial #: 40702D
Retest #: 1
Denomination: 5 gal
Observer: CEO

Eq Vol/cu.in.: 1155 cu.in.
Tolerance Class: VL
Material: SS
Coef of Expansion: 0.0000265 °F

Test Data

Del#	Std ID	Delivery	Material	Coef of Exp	Water Temp	Water Density	Delta
1	5gal	4.9991	SS	0.0000265 /°F	44.4 °F	0.999907	0 in3

Test Measure Information

Water Temperature: 44.4 °F
Water Density: 0.999907 g/cm³
Scale Reading: -0.25 cu.in.

Test Results

Test Measure Volume @ 60° F at zero scale reading: 5.0002 gal.
Tolerance: 0.0025 gal.
Uncertainty: 0.0012 gal.

Accepted/Rejected: A

1 cubic meter = 264.172 gallons

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 30
 Agency: Food Safety & Consumer Protection
 Area 30
 , -

NE Cert No: 20130026
 Date: 3/25/2013
 P.O. No:
 Observer: CEO

Submitted By: Jeff Saathoff

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
6	1	0	4 kg	CC10000S_5kg	4kg	-0.0079918 g	0.08 g	0.0406081 g	A
7A73	1	0	2 lb	CC1201_2 lb	NSL-2-1	0.0129707 g	0.091 g	0.0018872 g	A
7A73	2	0	2 lb	CC1201_2 lb	NSL-2-1	0.0425707 g	0.091 g	0.0018872 g	A
7A73	3	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0652293 g	0.091 g	0.0018872 g	A
7A73	4	0	2 lb	CC1201_2 lb	NSL-2-1	0.0050707 g	0.091 g	0.0018872 g	A
7A73	5	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0880293 g	0.091 g	0.0018872 g	A
7A73	6	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0425293 g	0.091 g	0.0018872 g	A
7A73	7	0	2 lb	CC1201_2 lb	NSL-2-1	0.0245707 g	0.091 g	0.0018872 g	A
7A73	8	0	2 lb	CC1201_2 lb	NSL-2-1	0.0476707 g	0.091 g	0.0018872 g	A
7A73	9	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0754293 g	0.091 g	0.0018872 g	A
7A73	10	0	2 lb	CC1201_2 lb	NSL-2-1	0.0732707 g	0.091 g	0.0018872 g	A
7A73	11	0	2 lb	CC1201_2 lb	NSL-2-1	0.0737707 g	0.091 g	0.0018872 g	A
7A73	12	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0187293 g	0.091 g	0.0018872 g	A
7A73	13	0	2 lb	CC1201_2 lb	NSL-2-1	0.0417707 g	0.091 g	0.0018872 g	A
7A73	14	0	2 lb	CC1201_2 lb	NSL-2-1	-0.0774293 g	0.091 g	0.0018872 g	A
7A73	15	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0410445 g	0.07 g	0.0004110 g	A
7A73	16	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0400445 g	0.07 g	0.0004110 g	A
7A73	17	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0118793 g	0.045 g	0.0004161 g	A
7A73	18	0	4 oz	CC1201_8 oz	NSL-Z	-0.0000279 g	0.023 g	0.0004014 g	A
7A73	19	0	2 oz	AT106_0.2 lb	NSL-Y	0.0006422 g	0.011 g	0.0000429 g	A
7A73	20	0	1 oz	AT106_0.2 lb	2A9-1oz	-0.0052201 g	0.0054 g	0.0003640 g	A
7A73	21	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	0.0011629 g	0.0028 g	0.0003637 g	A
7A73	22	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	0.0006285 g	0.0017 g	0.0000268 g	A
7A73	23	0	0.125 oz	CCE6_0.01 lb	2A9-1.8oz	-0.0010404 g	0.0013 g	0.0000087 g	A
7A73	24	0	0.0625 oz	CCE6_0.01 lb	2A9-1.16oz	-0.0003287 g	0.0011 g	0.0000087 g	A
7A73	25	0	0.0625 oz*	CCE6_0.01 lb	2A9-1.16oz	0.0007872 g	0.0011 g	0.0000087 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Submitted By: Jeff Saathoff

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
9-OPI-5	14	0	0.3 lb	CC1201_8 oz	NSL-WK1	-0.0024103 g	0.027 g	0.0004067 g	A
9-OPI-5	15	0	0.2 lb	AT106_0.2 lb	NSL-WK2	-0.0078116 g	0.018 g	0.0000492 g	A
9-OPI-5	16	0	0.1 lb	AT106_0.2 lb	NSL-WK3	-0.0041317 g	0.0091 g	0.0000407 g	A
9-OPI-5	17	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0026482 g	0.0045 g	0.0000362 g	A
9-OPI-5	18	0	0.03 lb	AT106_0.05 lb	NSL-WK5	0.0006669 g	0.0027 g	0.0000291 g	A
9-OPI-5	19	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0005417 g	0.0018 g	0.0000282 g	A
9-OPI-5	20	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	-0.0002785 g	0.0015 g	0.0000102 g	A
9-OPI-5	21	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	-0.0007178 g	0.0012 g	0.0000090 g	A
9-OPI-5	22	0	0.003 lb	CCE6_0.01 lb	NSL-WK9	-0.0002670 g	0.00099 g	0.0000085 g	A
9-OPI-5	23	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0003229 g	0.00087 g	0.0000063 g	A
9-OPI-5	24	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	-0.0004630 g	0.0007 g	0.0000062 g	A
9-OPI-5	25	0	0.001 lb*	CCE6_0.01 lb	NSL-WK11	-0.0000160 g	0.0007 g	0.0000062 g	A
WM25-132	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1097793 g	1.1 g	0.0357297 g	R
WM25-132	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.0747793 g	1.1 g	0.0357297 g	A
WM25-133	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4502207 g	1.1 g	0.0357297 g	A
WM25-135	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5697793 g	1.1 g	0.0357297 g	A
WM25-136	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9247793 g	1.1 g	0.0357297 g	A
WM25-137	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6947793 g	1.1 g	0.0357297 g	A
WM25-138	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4402207 g	1.1 g	0.0357297 g	A
WM25-139	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1797793 g	1.1 g	0.0357297 g	R
WM25-139	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2797793 g	1.1 g	0.0357297 g	A
WM25-140	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5297793 g	1.1 g	0.0357297 g	A
WM25-22	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0202207 g	1.1 g	0.0357297 g	A
WM25-26	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2097793 g	1.1 g	0.0357297 g	A
WM25-31	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1902207 g	1.1 g	0.0357297 g	A
WM25-34	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5952207 g	1.1 g	0.0357297 g	A
WM25-35	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7147793 g	1.1 g	0.0357297 g	A
WM25-41	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4597793 g	1.1 g	0.0357297 g	A
WM25-54	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5252207 g	1.1 g	0.0357297 g	A
WM25-60	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6697793 g	1.1 g	0.0357297 g	A
WM25-61	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8397793 g	1.1 g	0.0357297 g	A
WM25-62	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.2247793 g	1.1 g	0.0357297 g	A
WM25-63	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6547793 g	1.1 g	0.0357297 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Agency ID: 30
Agency: Food Safety & Consumer Protection
Area 30
, -

NE Cert No: 20130026
Date: 3/25/2013
P.O. No:
Observer: CEO

Submitted By: Jeff Saathoff

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM25-64	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8797793 g	1.1 g	0.0357297 g	A
WM-30-1	1	0	8 oz	CC1201_8 oz	NSL-8-1	-0.0084793 g	0.045 g	0.0004161 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

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"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

**Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
(402) 471-2087**

SOP 5 - 3-1 Weighing Design - Summary Of Test Results

Form No.: NE04LF4-R00

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
300 g	WM-G89-2	1	300.00378136	300.00286285	0.00014878	CC1201 / 1 kg	300g
200 g	WM-G89-2	2	200.00138810	200.00077575	0.00014778	CC1201 / 1 kg	200g
100 g	WM-G89-2	3	100.00177120	100.00146502	0.00001841	AT106_100G	100g
50 g	WM-G89-2	4	50.00036104	50.00020795	0.00001658	AT106_50G	50g
30 g	WM-G89-2	5	30.00066777	30.00057592	0.00001559	AT106_50G	30g
20 g	WM-G89-2	6	20.00030115	20.00023992	0.00001647	AT106_20G	20g
10 g	WM-G89-2	7	10.00043532	10.00040470	0.00002093	AT106_10G	10g
5 g	WM-G89-2	8	5.00020600	5.00019069	0.00000595	CCE6_5G	5g
3 g	WM-G89-2	9	3.00002850	3.00001931	0.00000595	CCE6_5G	3g
2 g	WM-G89-2	10	2.00006026	2.00005414	0.00000595	CCE6_5G	2g
1 g	WM-G89-2	11	1.00001851	1.00001545	0.00000400	CCE6_1G	1g
500 mg	WM-G89-2	12	0.49998568	0.49998415	0.00000348	CCE6_1G	500mg
200 mg	WM-G89-2	13	0.19998917	0.19998855	0.00000332	CCE6_1G	200mg
200 mg*	WM-G89-2	14	0.19998308	0.19998247	0.00000332	CCE6_1G	200mg
100 mg	WM-G89-2	15	0.09992755	0.09992725	0.00000430	CCE6_100MG	100mg
50 mg	WM-G89-2	16	0.04999266	0.04999251	0.00000429	CCE6_100MG	50mg
20 mg	WM-G89-2	17	0.02001957	0.02001368	0.00000429	CCE6_100MG	20mg
20 mg*	WM-G89-2	18	0.02003669	0.02003079	0.00000429	CCE6_100MG	20mg
10 mg	WM-G89-2	19	0.00999507	0.00999213	0.00000216	CCE6_10MG	10mg
5 mg	WM-G89-2	20	0.00500105	0.00499958	0.00000216	CCE6_10MG	5mg

Due to handling, storage and/or environmental factors, the reported values are valid only while test items are within our control. No calibration periods or intervals are given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

All values are "as found" unless stated differently in an attachment to the certification.

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

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Denom.	Serial Number	Wt. No.	True Mass (g)	Conventional Mass (g)	Uncertainty (g)	Comparator used	Standard used
2 mg	WM-G89-2	21	0.00200461	0.00200402	0.00000216	CCE6_10MG	2mg
2 mg*	WM-G89-2	22	0.00201496	0.00201437	0.00000216	CCE6_10MG	2mg
1 mg	WM-G89-2	23	0.00099664	0.00099634	0.00000215	CCE6_10MG	1mg**

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